

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Armstrong	Docket No.:	F2811
Serial No.:	10/773,025	Art Unit:	2629
Filed:	February 4, 2004	Examiner:	Chow, Doon Y.
For:	Image Controller		

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Applicant wishes to bring to the attention of the Patent and Trademark Office the information noted on the enclosed form PTO/SB/08A & 08B that may be considered material to the examination of the above-identified application. Applicant believes that the Examiner has already considered the information listed on the enclosed form and requests that the information be printed on the patent that issues from this allowed application.

The present application is a continuing application that claims benefit under 35 U.S.C. § 120 to parent application 09/893,292. The Examiner of an application filed under 37 CFR § 1.53(b) will consider information that has been considered by the Office in the parent application. M.P.E.P. § 609.02. The Applicant desires that the prior art considered by the Office in the parent application information be printed on a patent issuing from the continuing application. Accordingly, the Applicant submits the attached Form PTO/SB/08A & 08B listing the information that was considered by the Office in the parent application, 09/893,292, and

requests that this information be included on the printed patent issuing from the present application.

This Information Disclosure Statement is submitted under M.P.E.P. § 609.02. No fee is believed due in connection with this filing. However, should one be deemed due, the Commissioner is hereby authorized to charge, or credit any overpayment, Deposit Account No. 50-1065.

Respectfully submitted,

June 27, 2007

Date

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INFORMATION DISCLOSURE  
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of

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## Complete if Known

Application Number	10/773,025
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Art Unit	2629
Examiner Name	Chow, Doon Y.

Attorney Docket Number F2811

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
1	US-2,430,284		11-04-1947	Evers	
2	US-3,296,882		01-10-1967	Durand	
3	US-3,611,068		10-05-1971	Fujita	
4	US-3,693,425		09-26-1972	Starita, et al.	
5	US-3,710,050		01-09-1973	Richards	
6	US-3,771,037		11-06-1973	Bailey	
7	US-3,806,471		04-23-1974	Mitchell	
8	US-3,921,445		11-25-1975	Hill, et al.	
9	US-3,952,173		04-20-1976	Tsuji, et al.	
10	US-3,988,556		10-26-1976	Hyodo	
11	US-3,993,884		11-23-1976	Kondur, et al.	
12	US-4,099,409		07-11-1978	Edmond	
13	US-4,133,012		01-02-1979	Takamiya, et al.	
14	US-4,158,759		06-19-1979	Mason	
15	US-4,164,634		08-14-1979	Gilano	
16	US-4,216,467		08-05-1980	Colston	
17	US-4,224,602		09-23-1980	Anderson, et al.	
18	US-4,246,452		01-20-1981	Chandler	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
19	EP 0 835 676 A1		04-15-1998	Sega Enterprises, Ltd.		
20	JP 61292734		12-23-1986	Hal Lab Inc.		
21	DE 19803627		08-05-1999	Baltus Rene		
22	EP 0295368		12-21-1988	IBM Corp.		
23	JP 9223607		08-26-1997	Tekoku Tsushin Kogyo Co Ltd.		

Examiner Signature	Date Considered

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Sheet 2 of 33

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24	US-4,268,815	05-19-1981	Eventoff		
25	US-4,276,538	06-30-1981	Eventoff		
26	US-4,297,542	10-27-1981	Shumway		
27	US-4,301,337	11-17-1981	Eventoff		
28	US-4,313,113	01-26-1982	Thornburg		
29	US-4,314,228	02-02-1982	Eventoff		
30	US-4,314,227	02-02-1982	Eventoff		
31	US-4,315,238	02-09-1982	Eventoff		
32	US-4,348,142	09-07-1982	Figour		
33	US-4,349,708	09-14-1982	Asher		
34	US-4,369,663	01-25-1983	Venturello, et al.		
35	US-4,369,971	01-25-1983	Chang, et al.		
36	US-4,385,841	05-31-1983	Kramer		
37	US-4,406,217	09-27-1983	Oota		
38	US-4,408,103	10-04-1983	Smith		
39	US-4,414,537	11-08-1983	Grimes		
40	US-4,419,653	12-06-1983	Waigand		
41	US-4,420,808	12-13-1983	Diamond, et al.		

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42	EP 663648		07-19-1995	IBM Corp.		
43	JP 5151828		06-18-1993	Yokohama Rubber Co Ltd.		
44	JP 4155707		05-28-1992	Yokohama Rubber Co. Ltd.		
45	SG8095		08-16-1995			
46	JP 6154422		06-03-1994	Namco Ltd.		

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Sheet 3 of 33**Complete if Known**

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	47	US-4,469,330	09-04-1984	Asher	
	48	US-4,469,930	09-04-1984	Takahashi	
	49	US-4,489,302	12-18-1984	Eventoff	
	50	US-4,490,587	12-25-1984	Miller	
	51	US-4,491,325	01-01-1985	Bersheim	
	52	US-4,504,059	03-12-1985	Weinreb	
	53	US-4,514,600	04-30-1985	Lentz	
	54	US-4,536,746	08-20-1985	Gobeli	
	55	US-4,546,347	10-08-1985	Kirsch	
	56	US-4,552,360	11-12-1985	Bromley, et al.	
	57	US-4,555,960	12-03-1985	King	
	58	US-4,573,682	03-04-1986	Mayon	
	59	US-4,604,509	08-05-1986	Clancy, et al.	
	60	US-4,609,502	08-05-1986	Thomas	
	61	US-4,615,252	10-07-1986	Yamauchi, et al.	
	62	US-4,630,823	12-23-1986	Grant	
	63	US-4,647,916	03-03-1987	Boughton	
	64	US-4,667,271	05-19-1987	Wilson	

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	65	JP 7281824	10-27-1995	Namco Ltd.		
	66	JP 9213168	08-15-1997	Tekoku Tsushin Kogyo Co Ltd.		
	67	JP 9218737	08-19-1997	Namco Ltd.		
	68	JP 9223607	08-26-1997	Tekoku Tsushin Kogyo Co Ltd.		
	69	JP 11031606	02-02-1999	Tekoku Tsushin Kogyo Co Ltd.		

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70	US-4,670,743		06-02-1987	Zemke	
71	US-4,673,919		06-16-1987	Kataoka	
72	US-4,680,577		07-14-1987	Straayer, et al.	
73	US-4,684,089		08-04-1987	Lely	
74	US-4,687,200		08-18-1987	Shirai	
75	US-4,694,231		09-15-1987	Alvite	
76	US-4,724,292		02-09-1988	Ichikawa	
77	US-4,733,214		03-22-1988	Andresen	
78	US-4,745,301		05-17-1988	Michalchik	
79	US-4,766,271		08-23-1988	Mitsuhashi, et al.	
80	US-4,786,895		11-22-1988	Castaneda	
81	US-4,811,608		03-14-1989	Hilton	
82	US-4,855,704		08-08-1989	Betz	
83	US-4,858,930		08-22-1989	Sato	
84	US-4,866,542		09-12-1989	Shimada, et al.	
85	US-4,866,544		09-12-1989	Hashimoto	
86	US-4,879,556		11-07-1989	Duimel	
87	US-4,910,503		03-20-1990	Brodsky	

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88	RU 2010369		03-30-1994	Smyslov		
89	WO 9532776		12-07-1995	Fujiwara, et al.		
90	WO 9587630		11-11-1998	Scientific Atlanta		
91	EP 0905725		03-31-1999	Eaton Corp.		
92	GB 2155953		10-02-1985	Permelec Electrode Ltd.		

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93	US-4,909,514		03-20-1990	Tano	
94	US-4,924,216		05-08-1990	Leung	
95	US-4,933,670		06-12-1990	Wislocki	
96	US-4,935,728		06-19-1990	Kley	
97	US-4,962,448		10-09-1990	Demaio, et al.	
98	US-4,975,676		12-04-1990	Greenhalgh	
99	US-5,038,144		08-06-1991	Kaye	
100	US-5,059,958		10-22-1991	Jacobs, et al.	
101	US-5,065,146		11-12-1991	Garrett	
102	US-5,068,498		11-26-1991	Engel	
103	US-5,103,404		04-07-1992	McIntosh	
104	US-5,116,051		05-26-1992	Moncrief, et al.	
105	US-5,128,671		07-07-1992	Thomas	
106	US-5,132,658		07-21-1992	Dauenhauer, et al.	
107	US-5,139,439		08-18-1992	Shie	
108	US-5,142,931		09-01-1992	Menahem	
109	US-5,164,697		11-17-1992	Kramer	
110	US-5,168,221		12-01-1992	Houston	

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111	WO 9718508		05-22-1997	Synaptics Inc.		
112	DE 4013227		05-29-1991	Poulson, et al.		
113	CA 2038894		05-24-1994	Whitaker Corp.		
114	WO 9428387		08-08-1995	Incontrol Solutions Inc.		
115	DE 69306678 T		01-30-1997	Texas Instruments Inc.		

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116	US-5,182,796	01-26-1993	Shibayama, et al.		
117	US-5,183,998	02-02-1993	Hoffman, et al.		
118	US-5,184,830	02-09-1993	Okada, et al.		
119	US-5,189,355	02-23-1993	Larkins, et al.		
120	US-5,196,782	03-23-1993	D'aleo, et al.		
121	US-5,200,597	04-06-1993	Eastman		
122	US-5,203,563	04-20-1993	Loper		
123	US-5,207,426	05-04-1993	Inque, et al.		
124	US-5,222,400	06-29-1993	Hilton		
125	US-5,231,386	07-27-1993	Brandenburg, et al.		
126	US-5,237,311	08-17-1993	Mailey, et al.		
127	US-5,250,930	10-05-1993	Yoshida, et al.		
128	US-5,252,952	10-12-1993	Frank, et al.		
129	US-5,259,626	11-09-1993	Ho		
130	US-5,264,768	11-23-1993	Gregory, et al.		
131	US-5,271,290	12-21-1993	Fischer		
132	US-D342,740	12-28-1993	Parker		
133	US-5,278,557	01-11-1994	Stokes, et al.		

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>4</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
134	JP 658419	03-01-1994	Texas Instruments Inc.			
135	WO 9318475	12-31-1996	Armstrong			
136	EP 0451676 A1	10-16-1991	Nokia Unterhaltungselektronik			
137	DE 4011636	10-24-1991	Nokia Unterhaltungselektronik			
138	JP 4230918	08-19-1992	Nokia Unterhaltungselektronik			

Examiner Signature	Date Considered

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 7 of 33

**Complete If Known**

Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.
Attorney Docket Number	F2811

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
139	US-5,280,926		01-25-1994	Sogge, et al.	
140	US-5,287,089		02-15-1994	Parsons	
141	US-5,286,024		02-15-1994	Winblad	
142	US-5,293,158		03-08-1994	Soma	
143	US-5,294,121		03-15-1994	Chiang	
144	US-5,298,919		03-29-1994	Chang	
145	US-5,311,779		05-17-1994	Teruo	
146	US-5,313,229		05-17-1994	Gilligan, et al.	
147	US-5,315,204		05-24-1994	Park	
148	US-5,327,201		07-05-1994	Coleman, et al.	
149	US-5,329,276		07-12-1994	Hirabayashi	
150	US-5,333,057		07-26-1994	Morikawa, et al.	
151	US-5,345,807		09-13-1994	Butts, et al.	
152	US-5,349,371		09-20-1994	Fong	
153	US-5,355,352		10-11-1994	Kobayashi, et al.	
154	US-5,364,108		11-15-1994	Esnouf	
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156	AU 544234		05-23-1985	Eventoff		
157	CA 1143030		03-15-1983	Eventoff		
158	CA 1153801		09-13-1983	Eventoff		
159	CA 1161921		02-07-1984	Eventoff		
160	CA 1153577		09-13-1983	Eventoff		

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of

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**Complete if Known**

Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.

Attorney Docket Number F2811

**U.S. PATENT DOCUMENTS**

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161	US-5,376,913		12-27-1994	Pine, et al.	
162	US-5,386,084		01-31-1995	Risko	
163	US-5,389,757		02-14-1995	Soullere	
164	US-5,391,083		02-21-1995	Roebuck, et al.	
165	US-D355,901		02-28-1995	Bradley	
166	US-5,394,168		02-28-1995	Smith, III, et al.	
167	US-5,396,235		03-07-1995	Maeshima	
168	US-5,396,225		03-07-1995	Okada, et al.	
169	US-5,399,823		03-21-1995	McCusker	
170	US-5,419,613		05-30-1995	Wedecking	
171	US-5,440,237		08-08-1995	Brown, et al.	
172	US-5,452,615		09-26-1995	Hilton	
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179	CA 1153802		09-13-1983	Eventoff		
180	CA 1153803		09-13-1983	Eventoff		
181	DE 3044384		08-27-1981	Eventoff		
182	FR 2470435		05-29-1981	Eventoff		
183	GB 2064873		06-17-1981	Eventoff		

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	9	of	33	Attorney Docket Number	F2811
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**Complete if Known**

Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.

**U.S. PATENT DOCUMENTS**

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184	US-5,510,812		04-23-1996	O'Mara, et al.	
185	US-5,512,892		04-30-1996	Corballis	
186	US-5,517,211		05-14-1996	Kwang-Chien	
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188	US-5,530,455		06-25-1996	Gillick, et al.	
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201	US-5,606,594		02-25-1997	Register, et al.	

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202	GB 2134320		08-08-1984	Eventoff		
203	GB 2134321		08-08-1984	Eventoff		
204	GB 213422		08-08-1984	Preston, et al.		
205	IT 1143185		10-22-1986	Eventoff		
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Sheet 10 of 33

**Complete if Known**

Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.
Attorney Docket Number	F2811

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207	US-5,607,158		03-04-1997	Chan	
208	US-5,615,083		03-25-1997	Burnett	
209	US-5,640,566		06-17-1997	Victor, et al.	
210	US-5,644,113		07-01-1997	Date, et al.	
211	US-D381,982		08-05-1997	Zeitman	
212	US-5,657,051		08-12-1997	Liao	
213	US-5,659,334		08-19-1997	Yaniger, et al.	
214	US-4,045,650		08-30-1977	Nestor	
215	US-5,670,955		09-23-1997	Thorn, et al.	
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220	US-5,675,309		10-07-1997	Devolpl	
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223	US-5,687,080		11-11-1997	Hoyt, et al.	
224	US-5,689,285		11-18-1997	Asher	

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225	JP 6058276		08-03-1994	Daikin Ind. Ltd.		
226	JP 2108444		11-06-1996	Kawasaki Steel Corp.		
227	JP 5197381		08-06-1993	Eventoff		
228	JP 6101567		12-12-1994	Riken Corp.		
229	JP 1125871		05-18-1989	Eventoff		

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Sheet	11	of	33	Attorney Docket Number	F2811
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## Complete if Known

Application Number	10/773,025
Filing Date	February 4, 2004
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Art Unit	2629
Examiner Name	Chow, Doon Y.

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230	US-5,706,027		01-06-1998	Hilton, et al.	
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236	US-5,767,840		06-16-1998	Selker	
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239	US-5,774,109		06-30-1998	Winsky, et al.	
240	US-5,778,404		07-07-1998	Capps, et al.	
241	US-5,781,807		07-14-1998	Glassgold, et al.	
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243	US-5,805,138		09-08-1998	Brawne, et al.	
244	US-5,812,114		09-22-1998	Loop	
245	US-5,815,139		09-29-1998	Yoshikawa	
246	US-5,828,363		10-27-1998	Yaniger, et al.	
247	US-5,831,596		11-03-1998	Marshall, et al.	

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248	JP 5022398		03-29-1993	Canon Inc.		
249	NL 8006409		06-16-1981	Eventoff		
250	SE 452925		12-21-1987	Eventoff		
251	SE 8008205		05-27-1981	Eventoff		
252	JP 2049029		10-26-1990	Nippon Telegraph & Telephone Corp.		

Examiner Signature	Date Considered
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Sheet 12 of 33

## Complete if Known

Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.

Attorney Docket Number F2811

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253	US-5,835,977	11-10-1998	Kamentser, et al.		
254	US-4,786,764	11-22-1988	Padula, et al.		
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256	US-5,847,639	12-08-1998	Yaniger		
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258	US-5,847,698	12-08-1998	Reavy, et al.		
259	US-5,854,624	12-29-1998	Grant		
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261	US-5,854,622	12-29-1998	Brannon		
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263	US-5,872,521	02-16-1999	Lopatukin, et al.		
264	US-5,883,619	03-16-1999	Ho, et al.		
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266	US-5,889,507	03-30-1999	Engle, et al.		
267	US-5,895,471	04-20-1999	King et al.		
268	US-5,898,359	04-27-1999	Ellis		
269	US-5,898,425	04-27-1999	Sekine		
270	US-5,909,207	06-01-1999	Ho		

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
271	JP 56108279	08-27-1981	Eventoff			
272	WO 9304348	03-04-1993	Spaceball Technologies Inc.			
273	DE 3687571 T	03-04-1993	Spatial Systems Party Ltd.			
274	EP 0227432	07-01-1987	Hilton			
275	JP 62177426	08-04-1987	Spatial Systems Party Ltd.			

Examiner Signature	Date Considered

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 13 of 33

**Complete if Known**

Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.

Attorney Docket Number F2811

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
276	US-5,910,798	06-08-1999	Kim		
277	US-5,910,882	06-08-1999	Burrell		
278	US-5,917,779	06-29-1999	Raison, et al.		
279	US-5,923,317	07-13-1999	Sayler, et al.		
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281	US-5,943,044	08-24-1999	Martinelli, et al.		
282	US-5,948,066	09-07-1999	Whalen, et al.		
283	US-5,952,631	09-14-1999	Miyaki		
284	US-5,963,196	10-05-1999	Nishiumi et al.		
285	US-5,966,117	10-12-1999	Seffernick, et al.		
286	US-5,974,238	10-26-1999	Chase		
287	US-5,973,668	10-26-1999	Watanabe		
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289	US-5,984,785	11-16-1999	Takeda, et al.		
290	US-5,991,594	11-23-1999	Froeber, et al.		
291	US-5,995,026	11-30-1999	Sellers		
292	US-5,995,319	11-30-1999	Tanigawa, et al.		
293	US-5,999,084	12-07-1999	Armstrong		

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Examiner Initials*	Cite No.	Foreign Patent Document Country Code <sup>4</sup> - Number <sup>5</sup> - Kind Code <sup>6</sup> (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>7</sup>
294	GB 2133957 A	08-01-1984	International Computers Ltd.			
295	CN 1202254	12-16-1998	Synaptics Inc.			
296	EP 0861462	09-02-1998	Synaptics Inc.			
297	AU 557120	12-04-1986	International Computers Ltd.			
298	AU 2379484	08-02-1984	International Computers Ltd.			

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 14 of 33

**Complete if Known**

Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.
Attorney Docket Number	F2811

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>2</sup>	Document Number Number - Kind Code <sup>3</sup> (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
299	US-5,999,808		12-07-1999	Ladue	
300	US-6,001,014		12-14-1999	Ogata, et al.	
301	US-6,004,210		12-21-1999	Shinohara	
302	US-6,020,884		02-01-2000	MacNaughton, et al.	
304	US-6,027,828		02-22-2000	Hahn	
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306	US-6,040,821		03-21-2000	Franz, et al.	
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Examiner Initials*	Cite No. <sup>2</sup>	Foreign Patent Document Country Code <sup>4</sup> - Number <sup>5</sup> - Kind Code <sup>6</sup> (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>8</sup>
318	ZA 8400356		08-29-1984	International Computers Ltd.		
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321	GB 2113920 A		08-10-1983	Alps Electric Co., Ltd.		
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Examiner Signature	Date Considered

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 15 of 33

**Complete if Known**

Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.

Attorney Docket Number F2811

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number - Kind Code <sup>2</sup> (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
323	US-6,118,979		09-12-2000	Powell	
324	US-6,124,845		09-26-2000	Toda, et al.	
325	US-6,135,886		10-24-2000	Armstrong	
328	US-6,153,843		11-28-2000	Date, et al.	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>4</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (If Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
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344	JP 587760		11-26-1993	Mitsumi		
345	JP 7302159		11-14-1995	Sega Enterprises, Ltd.		
346	DE 3031484		11-04-1982	Grundig EMV		

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 16 of 33

**Complete if Known**

Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.

Attorney Docket Number F2811

**U.S. PATENT DOCUMENTS**

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347	US-6,275,138		08-14-2001	Maeda	
348	US-6,285,356		09-04-2001	Armstrong	
349	US-6,310,606		10-30-2001	Armstrong	
350	US-6,321,158		11-20-2001	Delorme, et al.	
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352	US-6,343,991		02-05-2002	Armstrong	
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354	US-6,347,997		02-19-2002	Armstrong	
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369	EP 0579448		01-19-1994	Texas Instruments Inc.		

Examiner Signature	Date Considered

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Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.

Sheet

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of

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Attorney Docket Number

F2811

**U.S. PATENT DOCUMENTS**

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371	US-6,504,527		01-07-2003	Armstrong	
372	US-6,518,953		02-11-2003	Armstrong	
373	US-6,524,187		02-25-2003	Komata	
374	US-6,529,185		03-04-2003	Armstrong	
375	US-6,532,000		03-11-2003	Armstrong	
378	US-6,538,638		03-25-2003	Armstrong	
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383	US-5,640,152		06-17-1997	Copper	
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385	US-5,485,171		01-16-1996	Copper, et al.	
386	US-5,714,983		02-03-1998	Sacks	
387	US-5,258,748		11-02-1993	Jones	

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388	EP 1080753		03-07-2001	Namco Ltd.		
389	GB 2058462		04-08-1981	Shinetsu Polymer Co.		
390	GB 2233499 A		01-09-1991	Mitsubishi		
391	GB 2267392 A		12-01-1993	Collins		
392	GB 2308448		06-25-1997	Samsung Clapley Device Co., Ltd.		

Examiner Signature		Date Considered	

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 18 of 33

**Complete if Known**

Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.

Attorney Docket Number F2811

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403	US-6,028,271		02-22-2000	Gillespie, et al.	
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406	US-5,914,465		06-22-1999	Allen, et al.	
407	US-5,543,590		08-06-1996	Gillespie, et al.	
408	US-5,043,721		08-27-1991	May, et al.	
409	US-5,675,524		10-07-1997	Bernard, et al.	
410	US-2002/0036660		03-28-2002	Adan, et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> - Number <sup>3</sup> - Kind Code <sup>4</sup> (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
411	JP 60175401		09-09-1985	Asahi Chemical Ind.		
412	JP 62160623		07-16-1987	Yamatake Honeywell Co. Ltd.		
413	JP 2158105		06-18-1990	Yokohama Rubber Co. Ltd.		
414	JP 3108701		05-08-1991	Canon Inc.		
415	EP 0952555 A1		10-27-1999	Sega Enterprises, Ltd.		

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE  
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## Complete if Known

Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Deon Y.
Attorney Docket Number	F2811

## U.S. PATENT DOCUMENTS

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416	US-2001/0009037	07-19-2001	Komata		
417	US-2001/0040585	11-15-2001	Hartford et al.		
418	US-2002/0122027	09-05-2002	Kim		
419	US-4,916,262	04-1990	Jungels-Butler, et al.		
420	US-5,729,249	03-1998	Yasutake		
421	US-5,659,334	08-1997	Yansiger, et al.		
422	US-6,004,134	12-1999	Marcus, et al.		
423	US-5,138,119	08-1992	Demeo		
424	US-5,349,370	09-20-1994	Katayama, et al.		
425	US-5,049,079	09-17-1991	Furtado, et al.		
426	US-5,687,331	11-11-1997	Volk, et al.		
427	US-5,542,039	07-30-1996	Brinson, et al.		
428	US-4,850,591	07-25-1989	Takezawa		
429	US-6,217,444	04-17-2001	Kataoka, et al.		
430	US-6,007,423	12-28-1999	Nakamura		
431	US-5,184,120	02-02-1993	Sehultz		
432	US-5,555,894	09-17-1996	Doyama, et al.		
433	US-5,673,066	09-30-1997	Toda, et al.		

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434	EP 0852961 A1	07-15-1998	Konami Co., Ltd.			
435	WO 0152042	07-19-2001	Sony Computer Entertainment Inc.			
436	TW 288636	10-11-1996	Primax Electronic Ltd.			
437	TW 369431	09-11-1999	Sony Computer Entertainment, Inc.			
438	WO 9307606	04-15-1993	Copper, et al.			

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Sheet	20	of	33	Attorney Docket Number	F2811
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**Complete if Known**

Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.

**U.S. PATENT DOCUMENTS**

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439	US-5,853,324	12-29-1998	Kami, et al.		
440	US-6,146,278	11-14-2000	Kobayashi		
441	US-6,031,516	02-29-2000	Leiper		
442	US-6,041,068	03-21-2000	Rosengren, et al.		
443	US-5,358,259	10-25-1994	Best		
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447	US-6,414,996	07-02-2002	Owen, et al.		
448	US-6,400,353	06-04-2002	Ikahara, et al.		
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454	US-5,619,180	04-08-1997	Massimino, et al.		
455	US-4,503,705	03-12-1985	Polchaninoff		
456	US-4,756,076	07-12-1988	Dyben, et al.		

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457	JP 140545		04-12-1989			
458	JP 5326217		12-10-1993	Mitsumi Electric Co. Ltd.		
459	JP 63029113		08-16-1989	Yamaha Corp.		
460	EP 0470615		02-12-1992	Nintendo Co. Ltd.		
461	AU 645462		01-13-1994	Nintendo Co. Ltd.		

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**Complete if Known**

Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.

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462	US-4,845,457		07-04-1989	Nakanishi	
463	US-4,996,511		02-26-1991	Ohkawa, et al.	
464	US-3,986,254		10-19-1976	Nordstrom	
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480	AU 8142991		02-13-1992	Nintendo Co. Ltd.		
481	CA 2048167		02-10-1992	Nintendo Co. Ltd.		
482	CN 1058728		12-19-1992	Nintendo Co. Ltd.		
483	DE 69114400 T		12-14-1995	Nintendo Co. Ltd.		
484	ES 2079529		01-16-1996	Nintendo Co. Ltd.		

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		Application Number	10/773,025
(Use as many sheets as necessary)		Filing Date	February 4, 2004
		First Named Inventor	Armstrong
		Art Unit	2629
		Examiner Name	Chow, Doon Y.
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		Attorney Docket Number	F2811

## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(Use as many sheets as necessary)*

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U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

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	493	HK 30195	03-17-1995	Nintendo Co. Ltd.	
	494	GB 2247107	08-07-1991	Nintendo Co. Ltd.	
	495	KR 9705724	06-11-1997	Burr Brown Corp.	
	496	MX 9100564	04-01-1992	Nintendo Co. Ltd.	
	497	DE 3543890	06-19-1987	Thomas Brandt GMBH	

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**Complete if Known**

Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
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U.S. PATENT DOCUMENTS

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		Country Code <sup>2</sup> - Number <sup>3</sup> - Kind Code <sup>5</sup> (If known)	MM-DD-YYYY		
498	EP 0205726		12-30-1986	Hal Lab Inc.	
499	SU 739505		06-05-1980	Baranov, et al.	
500	EP 0302158		02-08-1989	Capcom Co., Ltd.	
501	EP 0830881 A1		03-25-1998	Konami Co., Ltd.	
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Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doan Y.
Attorney Docket Number	F2811

U.S. PATENT DOCUMENTS

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	503	EP 0403054	12-19-1990	Quantel Ltd.	
	504	JP 11009837	01-19-1999	Taito Corp.	
	505	DE 4004760	08-22-1991	Univ Kazakshksky	
	506	JP 4077335	03-11-1992	NKK Corp.	
	507	JP 63318623	12-27-1991	IBM Corp.	

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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
		Application Number	10/773,025
		Filing Date	February 4, 2004
		First Named Inventor	Armstrong
		Art Urit	2629
		Examiner Name	Chow, Doon Y.
(Use as many sheets as necessary)			
Sheet	25	of	33
		Attorney Docket Number	E2841

U.S. PATENT DOCUMENTS

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**FOREIGN PATENT DOCUMENTS**

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508	EP 0169624		01-29-1986	Nippon	
509	EP 0050231		04-28-1982	Bosch Siemens Hausgeraete	
510	CA 1203738		04-29-1986	CAE Electronics Ltd.	
511	WO 9522828		08-24-1995	Interlink Electronic	
512	JP 1976280		10-17-1995	Eventoff	

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<p>Substitute for form 1449A/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>(Use as many sheets as necessary)</p>				<p><b>Complete if Known</b></p> <table border="1"> <tr> <td>Application Number</td> <td>10/773,025</td> </tr> <tr> <td>Filing Date</td> <td>February 4, 2004</td> </tr> <tr> <td>First Named Inventor</td> <td>Armstrong</td> </tr> <tr> <td>Art Unit</td> <td>2629</td> </tr> <tr> <td>Examiner Name</td> <td>Chow, Doon Y.</td> </tr> </table>		Application Number	10/773,025	Filing Date	February 4, 2004	First Named Inventor	Armstrong	Art Unit	2629	Examiner Name	Chow, Doon Y.
Application Number	10/773,025														
Filing Date	February 4, 2004														
First Named Inventor	Armstrong														
Art Unit	2629														
Examiner Name	Chow, Doon Y.														
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U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.*	Foreign Patent Document Country Code* - Number* - Kind Code* (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	1*
	513	JP 1993198	11-22-1995	Eventoff		
	514	JP 1710832	11-11-1992	Eventoff		
	515	JP 1875027	09-26-1994	Hilton		
	516	JP 11511580	10-05-1999	Synaptics Inc.		
	517	GB 2159953	12-11-1985	STC PLC		

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Art Unit	2629
Examiner Name	Chow, Doon Y.
Attorney Docket Number	F2811

U.S. PATENT DOCUMENTS

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**FOREIGN PATENT DOCUMENTS**

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Examiner Initials*	Cite No.	Foreign Patent Document Country Code* - Number* - Kind Code* (if Known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	517	JP 6511340 T	12-15-1994	Copper, et al.	
	518	EP 0606388	07-20-1994	Copper, et al.	
	519	CA 120502	04-15-1993	Copper, et al.	
	520	AU 2780892	05-03-1993	Copper, et al.	
	521	AU 667688	04-04-1996	Copper, et al.	

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## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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**Complete if Known**

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Examiner Name	Chow, Doon Y.
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U.S. PATENT DOCUMENTS

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	522	WO 9806079	02-12-1998	Martinelli, et al.		
	523	EP 0574213	12-15-1993	Miller, et al.		
	524	DE 69324067 T	07-15-1999	Miller, et al.		
	525	DE 69324067 T	04-29-1999	Miller, et al.		
	526	WO 9607981	03-14-1996	Allen, et al.		

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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<i>Complete if Known</i>	
Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.
Attorney Docket Number	E2811

U.S. PATENT DOCUMENTS

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Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>a</sup> - Number <sup>a</sup> - Kind Code <sup>a</sup> (if known)				
527	JP 10505183 T		05-19-1998	Allen, et al.		
528	EP 0777888		06-11-1997	Allen, et al.		
529	AU 3544495		03-27-1996	Allen, et al.		
530	WO 9607966		03-14-1996	Allen, et al.		
531	KR 264640		10-02-2000	Allen, et al.		

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<i>Complete if Known</i>	
Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.
Attorney Docket Number	F2811

## U.S. PATENT DOCUMENTS

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		Country Code <sup>2</sup> - Number <sup>3</sup> - Kind Code <sup>4</sup> (If known)				
	532	JP 10505182 T	05-19-1998	Allen, et al.		
	533	EP 0777875	06-11-1997	Allen, et al.		
	534	DE 69521617 D	08-09-2001	Allen, et al.		
	535	CN 1166214	11-26-1997	Allen, et al.		
	536	AU 3544395	03-27-1996	Allen, et al.		

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Filing Date	February 4, 2003
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.
Attorney Docket Number	F2811

U.S. PATENT DOCUMENTS

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	537	WO 9718508	05-22-1997	Allen, et al.		
	538	JP 11511580 T	10-05-1999	Allen, et al.		
	539	EP 0861462	09-02-1998	Allen, et al.		
	540	CN 1202254	12-16-1998	Allen, et al.		
	541	JP 1204098	08-16-1989	Yamaha Corp.		

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INFORMATION DISCLOSURE  
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Application Number	10/773,025
Filing Date	February 4, 2004
First Named Inventor	Armstrong
Art Unit	2629
Examiner Name	Chow, Doon Y.
Attorney Docket Number	F2811

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	542	"Universal Serial Bus (USB), Device Class Definition for Human Devices, Firmware Specification," draft manual version 1.1, October 14, 1998, printed from website <a href="http://www.usb.org">www.usb.org</a> in November 1998.	
	543	NAMCO, CO., Photographs of game controller and written description of handheld controller for video games has a button to drive a gear and rotate a rotary potentiometer which creates an analog signal change based on positional change; to be considered prior art to some of Applicants claims.	
	544	"Mouse Ball-Actuating Device with Force and Tactile Feedback", IBM Disclosure Bulletin, Feb. 1990, vol. 32, no. 9B, pp. 230-235.	
	545	"Research Disclosures", Nov. 1987, vol. 283, "Joystick with Tactile Feedback".	
	546	SIVA, K.V., "Development of a General Purpose Hand Controller for Advanced Teleoperation", Article, July 1988, Harwell Laboratory, UK.	
	547	KAMBIK, S.F., "Keyboard Switch with Stroke and Feedback Enhancement Using Vertically Conducting Elastomer in a Laterally Conducting Mode", IBM Technical Disclosure Bulletin, October 1977, vol. 20, no. 5, pp. 1833-1834.	
	548	"Questel-Orbit QWEB", Web search results, December 1999, pp. 1-24 including short descriptions and abstracts.	
	549	LOGITECH, INC., "Cyberman 3D Controller", Advertisement, 1993, Logitech, Inc., Freemont, CA, USA.	
	550	LOGITECH, INC., "Cyberman 3D Controller" detailed photographs and description of the photographs.	
	551	"Flightstick Pro" joystick, CH Products, San Marcos, California, a joystick which uses a gymbal and rotary potentiometers, the joystick is prior art sold in stores.	

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(Use as many sheets as necessary)					
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